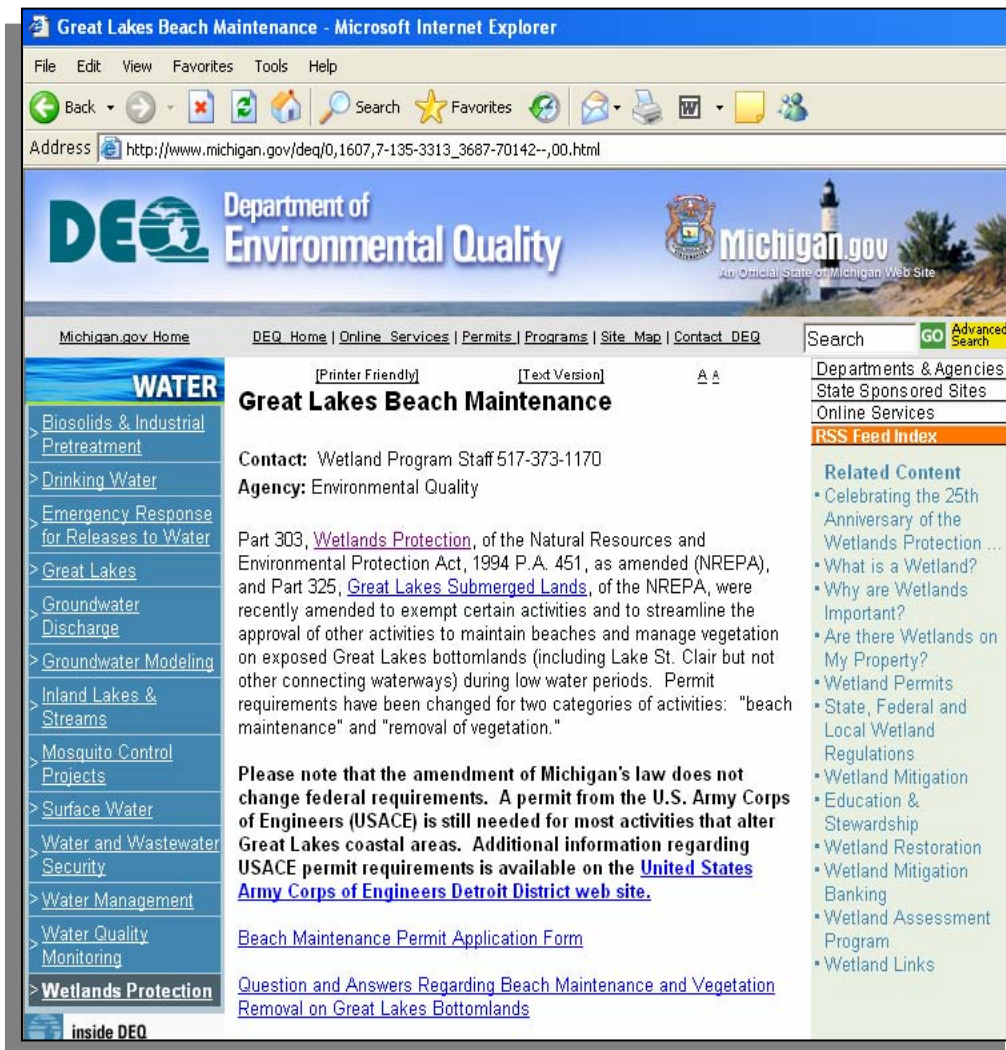


APPENDIX K – Web Pages

- Beach Maintenance
- Certification Language
- CIWPIS
- CIWPIS Downloadable Application
- CIWPIS on Line
- CIWPIS Public Notice Search
- CIWPIS Sample Application Search
- CIWPIS Sample Public Notice
- Critical Dune Areas
- Environmental Areas
- Floodplain Management/National Flood Insurance Program
- Floodplain – Subdivisions
- Great Lakes Conveyances
- Great Lakes Home Page
- High Risk Erosion Areas
- Joint Permit Application
- Land and Water Management Division Home Page
- Land Home Page
- Marinas
- MDEQ Home Page
- Water Home Page
- Water Levels
- Water Management Home Page
- Wetland Assessment Program
- Wetland Protection Home Page

MDEQ Beach Maintenance - Chapter 3

www.michigan.gov/jointpermit “Wetlands Protection (in Related Links)” “Great Lakes Beach Maintenance”



MDEQ Certification Language - Chapter 2

www.michigan.gov/jointpermit

"Water Management (in Related Links)," "Floodplain Management," "Hydraulic Programs and Report Guidelines"

The top screenshot shows the MDEQ website's 'Water Management' page. The left sidebar contains a 'WATER' menu with links to Biosolids & Industrial Pretreatment, Drinking Water, Emergency Response for Releases to Water, Great Lakes, Groundwater Discharge, Groundwater Modeling, Inland Lakes & Streams, Mosquito Control Projects, Surface Water, Water and Wastewater Security, and Water Management. The main content area includes a 'Water Management' section with a description of activities that may have potential impacts on public trust, riparian rights, or natural resources. A 'Dam Safety' link is also visible.

The bottom screenshot shows the 'Hydraulic Programs and Report Guidelines' page. The left sidebar is identical to the top page. The main content area includes a 'Contact' section for Minmin Shu (517-241-8129), a 'Computer programs and E-quests' section listing HEC-RAS and HY-8, and a 'Download instructions' section. A red box highlights the 'Hydraulic Capacity Certification' links under the 'Guidelines' section.

Hydraulic Programs and Report Guidelines

Contact: [Minmin Shu](#) 517-241-8129

Computer programs and E-quests:

- [HEC-RAS \(current version\)](#)
- [HY-8, version 6.1 \(600Kb\)](#): HY-8 is a program that automates the design methods described in the Hydraulic Design Series No. 5, "Hydraulic Design of Highway Culverts", FHWA-ID-85-15; HEC No. 14, "Hydraulic Design of Energy Dissipators for Culverts and Channels"; and HEC No. 19, "Hydrology", FHWA-IP-84-15. These publications are available from the Government Printing Office, Washington, DC 20402. The HY-8 software is a self-extracting binary file that has been structured to be self-contained and requires no user manual.

Download instructions: Create a folder in the C: drive called **HY8** then download the file to this folder. When the file has transferred, double click on the file "hy8-v61m.exe" to decompress the file. Once the files are extracted, double click on "setup.exe" and follow the directions. This step will tell the program where to look for your files. When the setup is complete, double click on "Hy8.exe" to run the program.

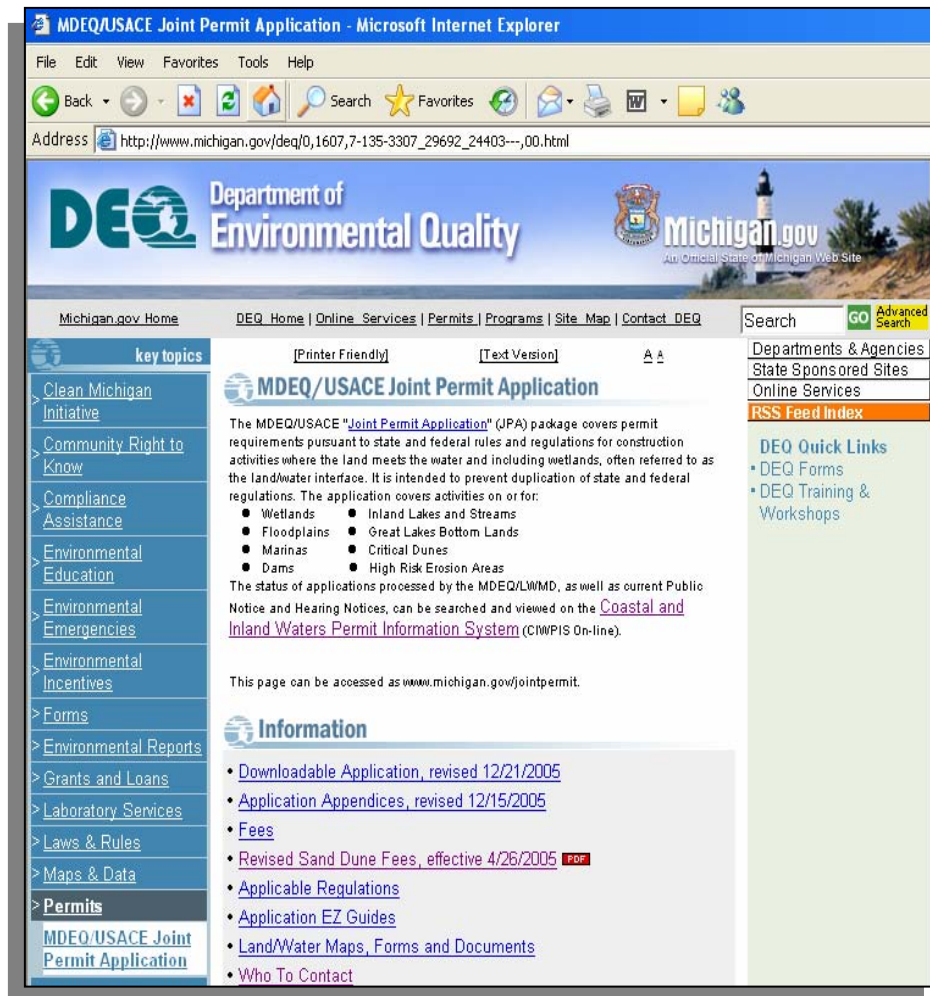
Applications and Preliminary Review forms (all files in pdf format):

- [Permit Application](#)
- [Voluntary Preliminary Review Instructions](#)
- [Voluntary Preliminary Review Form](#)

Guidelines:

- [Hydraulic Report Guidelines](#)
- [Damage Assessment Guidelines](#)
- [Hydraulic Capacity Certification - new crossings](#)
- [Hydraulic Capacity Certification - replacement crossings](#)

MDEQ/USACE Joint Permit Application - Chapters 1 and 5
www.michigan.gov/jointpermit “MDEQ/USACE Joint Permit Application”



MDEQ CIWPIS Downloadable Application - Chapter 1

www.michigan.gov/jointpermit "Downloadable Application"

MDEQ/USACE Joint Permit Application - Microsoft Internet Explorer

Address: http://www.michigan.gov/deq/0,1607,7-135-3307_29692_24403---,00.html

Department of Environmental Quality **Michigan.gov**
An Official State of Michigan Web Site

Michigan.gov Home | DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

Search **GO** Advanced Search

key topics

- Clean Michigan Initiative
- Community Right to Know
- Compliance Assistance
- Environmental Education
- Environmental Emergencies
- Environmental Incentives
- Forms
- Environmental Reports
- Grants and Loans
- Laboratory Services
- Laws & Rules
- Maps & Data
- Permits
- MDEQ/USACE Joint Permit Application

Information

- Downloadable Application, revised 12/21/2005
- Application Appendices, revised 12/15/2005
- Fees
- Revised Sand Dune Fees, effective 4/26/2005
- Applicable Regulations
- Application
- Land/Water Maps, Forms and Documents
- Who To Contact

The MDEQ/USACE "Joint Permit Application" (JPA) package covers permit requirements pursuant to state and federal rules and regulations for construction activities where the land meets the water and including wetlands, often referred to as the land/water interface. It is intended to prevent duplication of state and federal regulations. The application covers activities on or for:

- Wetlands
- Inland Lakes and Streams
- Floodplains
- Great Lakes Bottom Lands
- Marinas
- Critical Dunes
- Dams
- High Risk Erosion Areas

The status of applications processed by the MDEQ/LWMD, as well as current Public Notice and Hearing Notices, can be searched and viewed on the [Coastal and Inland Waters Permit Information System](#) (CIWPIS On-line).

This page can be accessed as www.michigan.gov/jointpermit.

Downloadable Application - Microsoft Internet Explorer

Address: http://www.michigan.gov/deq/0,1607,7-135-3307_29692_24403-67347---,00.html

Department of Environmental Quality **Michigan.gov**
An Official State of Michigan Web Site

Michigan.gov Home | DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

Search **GO** Advanced Search

Downloadable Application, revised 12/21/2005

Contact: [Permit Consolidation Unit](#) (517) 373-9244

Joint Permit Application with explanatory information

Modifying the language and/or instructions on the provided application form could result in rejection of the application, forfeiture of the fee, and possible legal action.

- [PDF format - for hand-written applications](#) revised 12/21/2005 (250 KB)
- [PDF format - fill-in form](#), revised 12/21/2005 (840 KB)

Adobe Reader or Acrobat Version 5 or higher is required to open either document. The latest version of Adobe Reader is available free from [Adobe](#). You may not be able to scroll through the PDF document until it is completely downloaded. If the form cannot be saved after it opens, right click on the link and select "Save Target As..." When printing this form, uncheck "Shrink oversized pages to paper size" (Adobe Reader Version 5) or select Paper Scaling: None (Adobe Reader Version 8) in the Print dialogue box so that the application prints at the correct size.

Form fields in the fill-in form can be displayed by checking the "Show background and hover color for form fields" check box under Edit, Preferences, Forms. You will not be able to save information you enter in the form fields unless you have Adobe Acrobat.

Related Content

- Summary of Correction Request/Withdrawal/Closure Policy (11 ... [PDF](#))
- Simplified Application Instructions (72 Kb) [PDF](#)
- Application EZ Guides
- Revised Sand Dune Fees, effective 4/26/2005 [PDF](#)
- Do I Need a Land/Water Permit? (150 KB PDF) [PDF](#)
- Land meets Water article (4/12/2004) [PDF](#)
- Application Appendices, revised 12/15/2005
- Joint Permit Application Training Manual
- Fees
- Applicable Regulations
- Land/Water Maps, Forms and Documents
- Who To Contact

CIWPIS on Line - Chapters 1 and 5

www.michigan.gov/jointpermit "Coastal and Inland Water Permit Information System" or
<http://www.deq.state.mi.us/ciwpis/>

The top screenshot shows the Michigan Department of Environmental Quality (DEQ) website. The page title is "MDEQ/USACE Joint Permit Application - Microsoft Internet Explorer". The address bar shows "http://www.michigan.gov/deq/0,1607,7-135-3307_29692_24403---,00.html". The page features a navigation menu on the left with links like "Clean Michigan Initiative", "Community Right to Know", "Compliance Assistance", "Environmental Education", "Environmental Emergencies", "Environmental Incentives", "Forms", "Environmental Reports", "Grants and Loans", "Laboratory Services", "Laws & Rules", "Maps & Data", "Permits", "MDEQ/USACE Joint Permit Application", and "Pollutants and". The main content area is titled "MDEQ/USACE Joint Permit Application" and describes the JPA package. A red circle highlights the link "Coastal and Inland Waters Permit Information System (CIWPIS On-line)".

The bottom screenshot shows the "MDEQ - LWMD CIWPIS ON LINE" page. The address bar shows "http://www.deq.state.mi.us/ciwpis/". The page features a search form with fields for "Year", "Sort by", "County", "Township Name", "Twtn", "Rng", "Sec", "Waterbody", "File Number", and "Applicant Name". The search form is titled "Search For:". The page also includes a "Help:" link and a "Search" button. The main content area is titled "Land and Water Management Division CIWPIS on line Coastal and Inland Waters Permit Information System". It provides a summary of the JPA and lists "Information Available" for search results.

Information Available

- New applications received (provided in three 2-week groupings)
- A particular file, specifying the file number or applicant name (typically the property owner)
- Applications within a specified township, county, or section
- Applications received on a certain waterbody
- Active public notices and hearings

Records are available only for the past 5 years. The search will result in a list of records applicable to your query. Each record provides real time information on

MDEQ CIWPIS Sample Public Notice Search - Chapter 5

www.michigan.gov/jointpermit "Coastal and Inland Waters Permit Information System," "Notices and Hearings" or <http://www.deq.state.mi.us/lwmpnh/>

MDEQ - CIWPIS Public Notices and Hearings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://www.deq.state.mi.us/lwmpnh/>

DEQ Department of Environmental Quality

Michigan.gov Home DEQ Home CIWPIS Online Services Permits Programs Site Map Contact Us

Wednesday, December 21, 2005

Coastal and Inland Waters Permit Information System

Public Notices and Hearings

About Land and Water Public Notices and Hearing Notices (link)

Information Available

How to perform a Search

Field Entry Tips

Information Available...

Search for:

All Active Records

Sort by:

Date D

County:

County

Township Name:

Twn: Rng: Sec:

Waterbody:

File Number:

Applicant Name:

CIWPIS On-line New Applications

Search For:

All Active Records

Sort by:

Date D

County:

Oakland

Township Name:

Twn: Rng: Sec:

Waterbody:

File Number:

Applicant Name:

Search

MDEQ - CIWPIS Public Notices and Hearings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://www.deq.state.mi.us/lwmpnh/default.asp>

DEQ Department of Environmental Quality

Michigan.gov Home DEQ Home CIWPIS Online Services Permits Programs Site Map

Wednesday, December 21, 2005

Coastal and Inland Waters Permit Information System

Public Notices and Hearings

File Number: 05-63-0361-P

Applicant: **Lloyd Strausz**

Oakland County - Pontiac Lake

Public Notice Date: 12/22/2005 - Comment Period: 12/22/2005 to 1/11/2006

Public Hearing Date: N/A - Comment Period: None

File Number: 05-63-0371-P

Applicant: **Henry Kreller**

Oakland County - wetland

Public Notice Date: 12/15/2005 - Comment Period: 12/15/2005 to 1/4/2006

Public Hearing Date: N/A - Comment Period: None

File Number: 05-63-0352-P

Applicant: **David Johnson**

Oakland County - Turtle Lake

Public Notice Date: 12/7/2005 - Comment Period: 12/7/2005 to 12/27/2005

Public Hearing Date: N/A - Comment Period: None

File Number: 05-63-0276-P

Applicant: **Village of Holly**

Oakland County - Bush Lake

Public Notice Date: 12/7/2005 - Comment Period: 12/7/2005 to 12/27/2005

Public Hearing Date: N/A - Comment Period: None

File Number: 05-63-0338-P

Applicant: **Dean Bartolomucci**

Oakland County -

Public Notice Date: 12/5/2005 - Comment Period: 12/5/2005 to 12/25/2005

MDEQ CIWPIS Sample Application Search - Chapter 5

www.michigan.gov/jointpermit "Coastal and Inland Waters Permit Information System" or
<http://www.deq.state.mi.us/lwmpnh/ciwpissubscriberslist.asp>

MDEQ - LWMD CIWPIS ON LINE - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Download Upload

Address <http://www.deq.state.mi.us/ciwpis/ciwpisqry.asp>

DEQ Department of Environmental Quality

[Michigan.gov Home](#) [DEQ Home](#) [CIWPIS](#) [Online Services](#) [Permits](#) [Programs](#) [Site Map](#) [Contact DEQ](#)

Wednesday, December 21, 2005

Land and Water Management Division
CIWPIS on line
Coastal and Inland Waters Permit Information System

Search For:

Year: Sort by:
Year Date D
County:
Allegan
Township Name:
Twn: Rng: Sec:
Waterbody:
File Number:
Applicant Name:
Search

650 Records returned. Top 100 records displayed.
Click on Folder icon for specific information.

File No:	Name:	Status:
05-03-0128-P	David Smit Homes Inc	Assigned to Lansing Reviewer
05-03-0127-P	Albert Blommaert	Assigned to Lansing Reviewer
05-03-0054-P	Todd Nykerk	Withdrawn by Applicant
05-03-0125-P	Thomas Seiff	Assigned to Lansing Reviewer
05-03-0126-P	Suzanne Finney	Assigned to Lansing Reviewer
05-03-0124-P	Daniel & Wendy Batchelor	Assigned to Field Reviewer
05-03-0123-P	Charles Bradford	Waiting for Additional Information - Lansing
05-03-0122-P	John & Janet Ryskamp	Assigned to Field Reviewer
05-03-0121-P	Sharon Schroeder	Closed Lack of Information
04-03-0054-P	Richard & Marcia Bishop	Permit Issued

Help:

MDEQ CIWPIS Public Notice - Chapter 5

www.michigan.gov/jointpermit
Hearings”

“Coastal and Inland Waters Permit Information System,” “Notices and

State of Michigan Department of Environmental Quality

Land and Water Management Division
7953 Adobe Road
Kalamazoo MI, 49009-5026
269-567-3500

File No. 05-03-0122-P

Date: December 8, 2005

PUBLIC NOTICE

John & Janet Ryskamp, 1566 Leon Road, Fennville, Michigan, 49408, has applied to this office for a permit under authority of Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The applicant proposes to place fill within a wetland area for the construction of a single family residence, at 1572 Leon Road. A total of 312 cubic yards of fill is proposed to be placed within a total of 1,445 square feet (0.03 acre) of wetland area for the construction of a house and septic system. The parcel is within a High Risk Erosion Area. Mitigation is not proposed within this application. The project is located in T2N, R16W, Section 30, Ganges Township, Allegan County, Michigan, in accordance with plans attached to this notice.

THIS NOTICE IS NOT A PERMIT

The proposed project may also be regulated by one or more additional parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, that are administered by the Land and Water Management Division (LWMD). The requirements of applicable parts are considered in determining if it is in the public interest to issue a permit.

When a permit application is received requesting authorization to work in wetlands of the State of Michigan, pursuant to PART 303, WETLANDS PROTECTION, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, the Act provides that the department submit copies for review to the department of public health, the city, village or township, and the county where the project is to be located, the local soil conservation district, any local watershed council organized under Part 311, and the local port commission. Additional notification is provided to certain persons as required by statute or determined by the department.

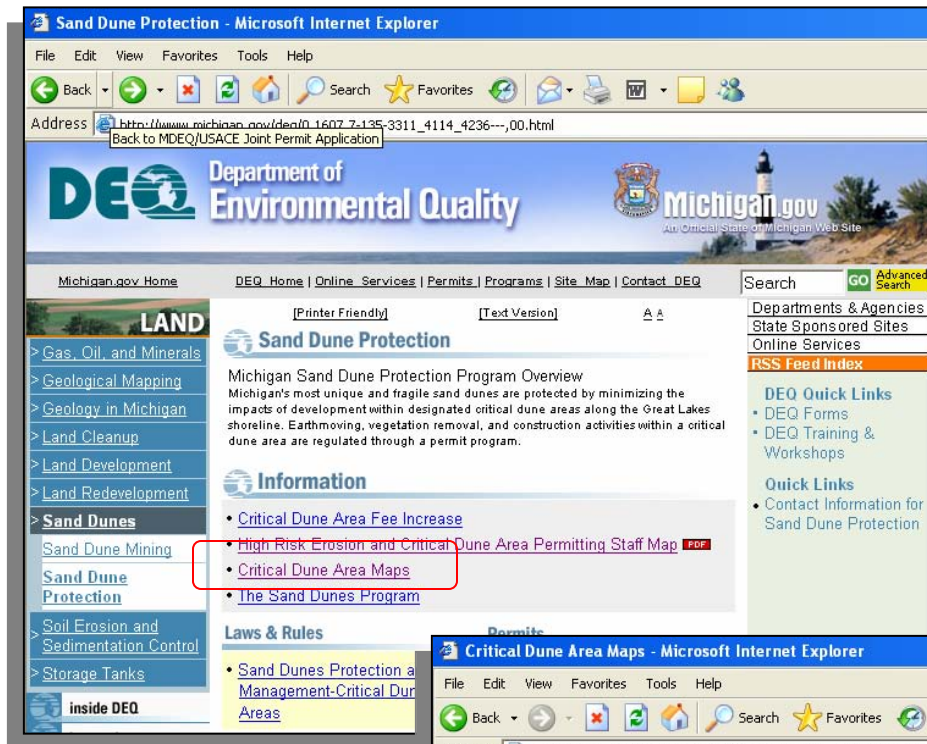
A city, village, township or county wanting to make comments on the proposed project shall furnish this office with its written comments no later than 45 days from the date of this notice. All other persons wishing to make comments shall furnish their written comments to this office within 20 days after the date of this notice. Written comments will be made part of the record and should reference the above file number. Objections must be factual, specific, and fully describe the reasons upon which any objection is founded. Unless a written request for a public hearing on this project is filed with the department within the 20-day public comment period, the department may make a decision on the permit application without a public hearing. The determination as to whether a permit will be issued or a public hearing held will be based on evaluation of all relevant factors defined in Sections 30106 and 30311, or permit criteria defined by other appropriate Parts of the NREPA. These Sections address the effect of the proposed work on the public trust or interest including navigation, fish, wildlife, and water quality among other criteria. Public comments received will also be considered.

cc: LWMD, Great Lakes
DNR, Wildlife-Plainwell
Allegan Co. Clerk
Allegan Co. Drain Comm.
John & Janet Ryskamp, applicant
USACE
Kenneth Campione

DNR, Fisheries-Plainwell
Allegan Co. Health Dept.
Ganges Township Clerk
Allegan Soil Conservation Dist.
History Division
James & Evelyn Nerad

MDEQ Designated Critical Dunes - Chapter 3

www.michigan.gov/jointpermit “Sand Dune Protection (in Related Links),” “Critical Dune Area Maps”



MDEQ Dams - Chapter 3

www.michigan.gov/jointpermit

www.michigan.gov/deqdamsafety

“Water Management (in Related Links),” “Dam Safety” or

The top screenshot shows the MDEQ website's 'Water Management' page. The left sidebar contains a 'WATER' menu with links to Biosolids & Industrial Pretreatment, Drinking Water, Emergency Response for Releases to Water, Great Lakes, Groundwater Discharge, Groundwater Modeling, Inland Lakes & Streams, Mosquito Control Projects, Surface Water, Water and Wastewater Security, and Water Management. The 'Water Management' link is highlighted. The main content area includes a 'Water Management' section with a description of activities that may have potential impacts on the public trust, riparian rights, or may impair or destroy the waters or other natural resources of the state. A red box highlights the 'Dam Safety' link in the left sidebar. The bottom screenshot shows the 'Dam Safety' page. The main content area includes a 'Dam Safety Program' section with a description of dams in Michigan regulated by Part 307 and Part 315 of The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The 'Information' section lists links to MDEQ/USACE Joint Permit Application, Inspection report form (Part 307 dams only), On-line Permit Tracking System (CIWPIS), Establishing Legal Lake Levels, Qualifications Based Selection (QBS) process for dam consultants, Construction Permits For Dams, and Inspection Report Format. The 'Laws & Rules' and 'Online Services' sections are also visible.

Water Management - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail News RSS Feeds

Address http://www.michigan.gov/deq/0,1607,7-135-3313_3684---,00.html

DEQ Department of Environmental Quality Michigan.gov Michigan.gov An Official State of Michigan Web Site

Michigan.gov Home DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ Search GO Advanced Search

WATER

- Biosolids & Industrial Pretreatment
- Drinking Water
- Emergency Response for Releases to Water
- Great Lakes
- Groundwater Discharge
- Groundwater Modeling
- Inland Lakes & Streams
- Mosquito Control Projects
- Surface Water
- Water and Wastewater Security
- Water Management

Water Management

- Water Management
- Activities that may have potential impacts to the public trust, riparian rights, or may impair or destroy the waters or other natural resources of the state, including inland lakes and streams, the Great Lakes, wetlands, and groundwater, are regulated by the DEQ. Information on the DEQ permit processes and water resource related databases and digital maps is provided.

Dam Safety

Click here for Administration and regulation of the rules and laws pertaining to the ownership and maintenance of Dams. Several resources are available here to help owners of dams and consultants who inspect and maintain dams. Detailed information on dam operations, laws and regulations, and engineering principles of dam construction, maintenance, and repair is provided.

Floodplain Management/National Flood Insurance

Click here for Information pertinent to the laws and rules of floodplain management and related links to State and Federal agencies.

DEQ Quick Links

- DEQ Forms
- DEQ Training & Workshops

Quick Links

- Land/Water Interface Permitting Staff Map
- Floodplain Engineering Staff Map
- Transportation Projects Permitting Staff Map

Dam Safety - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail News RSS Feeds

Address http://www.michigan.gov/deq/0,1607,7-135-3313_3684_3723---,00.html

DEQ Department of Environmental Quality Michigan.gov Michigan.gov An Official State of Michigan Web Site

Michigan.gov Home DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ Search GO Advanced Search

WATER

- Biosolids & Industrial Pretreatment
- Drinking Water
- Emergency Response for Releases to Water
- Great Lakes
- Groundwater Discharge
- Groundwater Modeling
- Inland Lakes & Streams
- Mosquito Control Projects
- Surface Water
- Water and Wastewater Security
- Water Management

Dam Safety

Dam Safety Program

Dams in Michigan are regulated by Part 307 and Part 315 of The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Dam Safety Staff Map

Information

- MDEQ/USACE Joint Permit Application
- Inspection report form (Part 307 dams only)
- Inspection report form (Part 307 dams only)
- On-line Permit Tracking System (CIWPIS)
- Establishing Legal Lake Levels
- Qualifications Based Selection (QBS) process for dam consultants
- Construction Permits For Dams
- Inspection Report Format

Laws & Rules **Online Services**

DEQ Quick Links

- DEQ Forms
- DEQ Training & Workshops

Quick Links

- Contact Information for Dam Safety

MDEQ Environmental Areas - Chapters 2 and 3

www.michigan.gov/jointpermit “Great Lakes (in Related Links),” “Shoreland Management,” “Environmental Areas Digital Maps”

Shoreland Management - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail News RSS Feeds

Address http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3700---,00.html

Department of Environmental Quality Michigan.gov

Michigan.gov Home DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

Search GO Advanced Search

Departments & Agencies
State Sponsored Sites
Online Services
RSS Feed Index

WATER

- Biosolids & Industrial Pretreatment
- Drinking Water
- Emergency Response for Releases to Water
- Great Lakes**
 - Aquatic Invasive Species
 - Areas of Concern
 - Coastal Management
 - Ballast Water Reporting
 - Dredging Projects
 - Protection Fund
 - Shipwrecks
 - Shoreland Management

Shoreland Management

Great Lakes Shorelands Management Program

Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 Public Act 451 (formerly known as 1970 PA 245) is the key state statute providing consumer protection from the natural hazards of coastal erosion and flooding as well as environmental protection of our fragile coastal areas. Part 323 is closely integrated with Part 325, the Great Lakes Submerged Lands program and the Coastal Management Program which includes Part 353, Sand Dunes Management, ...

Information

- High Risk Erosion Areas Digital Maps
- High Risk Erosion and Critical Dune Area Permitting Staff Map PDF
- Environmental Areas, Digital Maps**
- Environmental Areas
- Flood Risk Areas
- High Risk Erosion Areas

Environmental Areas, Digital Maps - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail News RSS Feeds

Address http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3700-63548---,00.html

Department of Environmental Quality Michigan.gov

Michigan.gov Home DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

Search GO Advanced Search

Departments & Agencies
State Sponsored Sites
Online Services
RSS Feed Index

WATER

- Biosolids & Industrial Pretreatment
- Drinking Water
- Emergency Response for Releases to Water
- Great Lakes**
 - Aquatic Invasive Species
 - Areas of Concern
 - Coastal Management
 - Ballast Water Reporting
 - Dredging Projects
 - Protection Fund
 - Shipwrecks
 - Shoreland Management

Environmental Areas, Digital Maps

The following lists all available digital maps. The links by location (town/range/section) will take you to more detailed maps than the links by township. The file sizes of these maps range from 80 to 160 Kb.

Many environmental areas in Michigan have not been digitally mapped by township or location. Townships with designated environmental areas are displayed in a [statewide map](#) and listed in a [PDF document](#). An explanation of the environmental area designation is available [here](#). For more information about a specific environmental area, contact the MDEQ [GLMD district office](#) for your area.

Map Index

[Arenac County](#)
[Bay County](#)
[Huron County](#)
[Tuscola County](#)

Township	Description	Location
Arenac County		
Arenac and AuGres		
Arenac N E		T19N/R6E/35
Arenac N E		T19N/R6E/33
Wigwam Bay		T18N/R6E/4.5
Wigwam Bay		T18N/R6E/6
Wigwam Bay		T19N/R6E/31

Related Content

- High Risk Erosion Areas Digital Maps
- High Risk Erosion and Critical Dune Area Permitting Staff Map PDF
- Environmental Areas
- Flood Risk Areas
- High Risk Erosion Areas

MDEQ Flood Management Page - Chapter 3

www.michigan.gov/jointpermit “Water Management (in Related Links),” Floodplain Management” or www.michigan.gov/deqfloodplainmanagement

The top screenshot displays the 'MDEQ/USACE Joint Permit Application' page in Microsoft Internet Explorer. The browser address bar shows http://www.michigan.gov/deq/0,1607,7-135-3307_29692_24403---,00.html. The page features the MDEQ logo and navigation links. The main content area is titled 'MDEQ/USACE Joint Permit Application' and describes the JPA package for construction activities. It lists various water bodies and features covered by the application, including Wetlands, Inland Lakes and Streams, Great Lakes Bottom Lands, Floodplains, Marinas, Critical Dunes, Dams, and High Risk Erosion Areas. The status of applications processed by the MDEQ/LWMD is also mentioned.

The bottom screenshot displays the 'Floodplain Management/National Flood Insurance' page in Microsoft Internet Explorer. The browser address bar shows http://www.michigan.gov/deq/0,1607,7-135-3313_3684_3725---,00.html. The page features the MDEQ logo and navigation links. The main content area is titled 'Floodplain Management/National Flood Insurance' and provides information on floodplains and the National Flood Insurance Program. It includes a section on 'Floodplains' and a section on the 'National Flood Insurance Program'. The page also includes a 'Water' sidebar with links to various water-related topics and a 'Quick Links' section on the right.

MDEQ Subdivision Floodplain - Chapter 3

www.michigan.gov/jointpermit “Water Management (in Related Links),” “Subdivision Floodplain” or www.michigan.gov/deqsubdivisions

The image shows a screenshot of the Michigan Department of Environmental Quality (MDEQ) website, specifically the Subdivision Floodplain page. The browser window is titled "Subdivision Floodplain - Microsoft Internet Explorer" and the address bar shows the URL: http://www.michigan.gov/deq/0,1607,7-135-3313_3684_3727--,00.html.

The website header features the MDEQ logo and the text "Department of Environmental Quality" and "Michigan.gov". Below the header is a navigation bar with links: Michigan.gov Home, DEQ Home, Online Services, Permits, Programs, Site Map, Contact DEQ, and a Search box.

The main content area is titled "Subdivision Floodplain" and includes a "Printer Friendly" link and a "Text Version" link. The page is divided into several sections:

- Water Management:** Activities that may have potential impacts to the public trust, riparian rights, or may impair or destroy the waters or other natural resources of the state, including inland lakes and streams, the Great Lakes, wetlands, and groundwater, are regulated by the DEQ. Information on the DEQ permit processes and water resource related databases and digital maps is provided.
- Dam Safety:** Click here for: Administration and regulation of the rules and laws pertaining to the ownership and maintenance of Dams. Several resources are available here to help owners of dams and consultants who inspect and provide maintenance. Details regarding operations, laws and rules, and a consultant that understands engineering principles of construction, maintenance of dams.
- Floodplain Management/National Flood Insurance:** Click here for: Information pertinent to the laws and rules of floodplain management and related links to State and Federal agencies.

The right sidebar contains links to "Departments & Agencies", "State Sponsored Sites", "Online Services", and "RSS Feed Index". Below these are "DEQ Quick Links" (DEQ Forms, DEQ Training & Workshops) and "Quick Links" (Land/Water Interface Permitting Staff Map, Floodplain Engineering Staff Map, Transportation Projects Permitting Staff Map).

The main content area also includes a "Subdivision Floodplain Program" section with a description of the program and a photo of a flooded area. Below this is an "Information" section with links to "Land Division Act Flow Chart" and "Hydraulic Report Guide - Abbreviated Version". The "Laws & Rules" section lists "Rules 560.301 - 560.304" and "Land Division Act". The "Related Links" section includes "Michigan Communities Participating in the National Flood Program" and "Floodplain maps for identified communities".

MDEQ Great Lakes Conveyance - Chapter 3

www.michigan.gov/jointpermit “Great Lakes (in Related Links),” “Submerged Lands” or
www.michigan.gov/deqgreatlakes



MDEQ Great Lakes Home Page - Chapters 2 and 3

www.michigan.gov/deq "Water," "Great Lakes" or www.michigan.gov/deqgreatlakes



MDEQ High Risk Erosion Areas - Chapter 3

www.michigan.gov/jointpermit
Erosion Areas”

“Great Lakes (in Related Links),” “Shoreland Management,” “High Risk

The image displays three sequential screenshots of the Michigan Department of Environmental Quality (MDEQ) website, illustrating the navigation path to the High Risk Erosion Areas page.

Screenshot 1: Home Page
The browser window shows the MDEQ homepage. The address bar displays http://www.michigan.gov/deq/0,1607,7-135-3313_3677---,00.html. The page features the MDEQ logo and navigation links. The left sidebar menu is expanded to the "Great Lakes" section, listing various topics including "Aquatic Invasive Species", "Areas of Concern", "Coastal Management", "Ballast Water Reporting", "Dredging Projects", "Protection Fund", "Shipwrecks", "Shoreland Management", and "Submerged Lands".

Screenshot 2: Shoreland Management Page
The browser window shows the "Shoreland Management" page. The address bar displays http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3700---,00.html. The page features the MDEQ logo and navigation links. The left sidebar menu is expanded to the "Great Lakes" section. The main content area includes a "Great Lakes Shorelands Management Program" section, an "Information" section with links to "High Risk Erosion Areas Digital Maps", "High Risk Erosion and Critical Dune Area Permitting Staff Map", "Environmental Areas, Digital Maps", "Environmental Areas", "Flood Risk Areas", and "High Risk Erosion Areas" (highlighted with a red box). The right sidebar contains links to "Departments & Agencies", "State Sponsored Sites", "Online Services", "RSS Feed Index", "DEQ Quick Links", and "Quick Links".

Screenshot 3: High Risk Erosion Areas Page
The browser window shows the "High Risk Erosion Areas" page. The address bar displays http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3700-10860---,00.html. The page features the MDEQ logo and navigation links. The left sidebar menu is expanded to the "Great Lakes" section. The main content area includes a "High Risk Erosion Areas" section with a "Contact" link to Penny Holt (517-373-1952) and Matt Warner (517-335-4209). The text describes the impact of erosion on property and structures, and the regulations established to protect new structures from erosion. The right sidebar contains links to "Departments & Agencies", "State Sponsored Sites", "Online Services", "RSS Feed Index", "Related Content", and "High Risk Erosion Areas Digital Maps".

Land and Water Management Home Page - Chapter 3
www.michigan.gov/deqlwmd

DEQ Department of Environmental Quality Michigan.gov
The Official State of Michigan Website

[Michigan.gov Home](#) | [DEQ Home](#) | [Online Services](#) | [Permits](#) | [Programs](#) | [Site Map](#) | [Contact DEQ](#) Search [GO](#) [Advanced Search](#)

[inside DEQ](#) [\[Printer Friendly\]](#) [\[Text Version\]](#) A A

Land and Water Management Division

Who We Are
The Land and Water Management Division (LWMD), 517-373-1170, is responsible for land/water interface resources. The mission of the LWMD is to promote the best use of these resources for their social and economic benefits while protecting associated resource values, property rights, the environment, and public health and safety.

[LWMD Program Guide](#)

What We Do

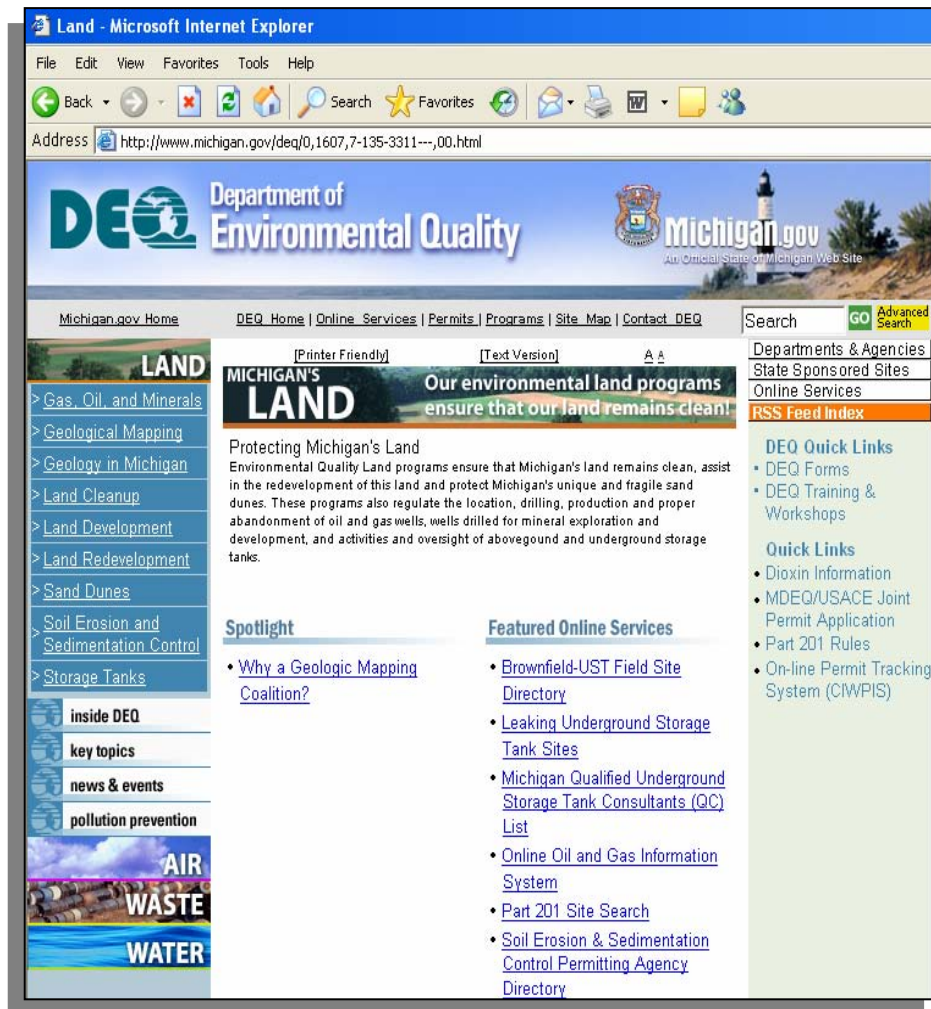
Hydrologic Studies Request a Discharge Flood Discharges Floodplain Management Hydrologic Data Collection and Analysis Low Flow Discharges Nonpoint Source Support	Permit Consolidation Joint Permit Application Wetlands and Submerged Lands Dredging Projects High Risk Erosion Areas Marinas Sand Dune Protection Shipwrecks Shoreland Management Submerged Lands Submerged Logs Wetlands Restoration	LWMD Links Mission Statement District Offices Organization Chart Staff Phone List Laws and Rules DEQ Database LWMD Spreadsheet Staff Maps Dam Safety Floodplain Land/Water Permits Sand Dune Transportation DEQ Calendar
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inside DEQ

- > [Contact DEQ](#)
- > [Fiscal/Planning](#)
- > [Air Quality Division](#)
- > [Environmental Advisory Council](#)
- > [Environmental Science and Services Division](#)
- > [Information for DEQ Employees](#)
- Land and Water Management Division**
 - > [Agriculture and Rural Communities Roundtable](#)
 - > [Office of Civil Enforcement Coordination](#)
 - > [Office of Criminal Investigations](#)
 - > [Office of Internal Audit](#)
 - > [Office of Geological Survey](#)
 - > [Office of Great Lakes](#)

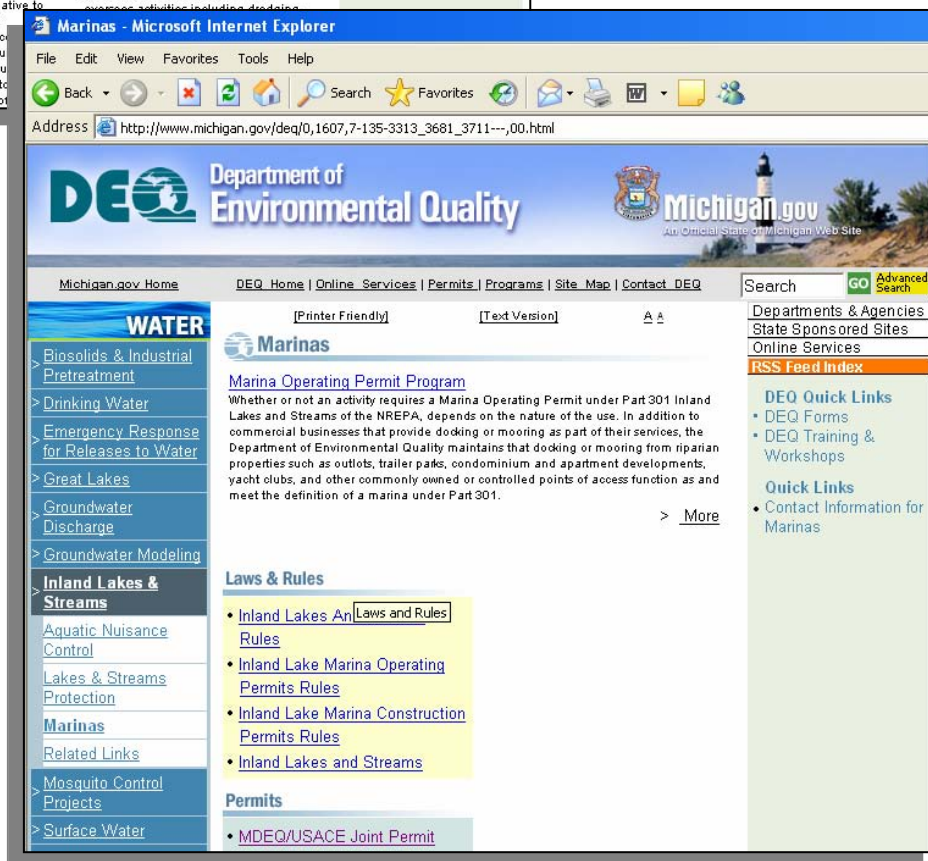
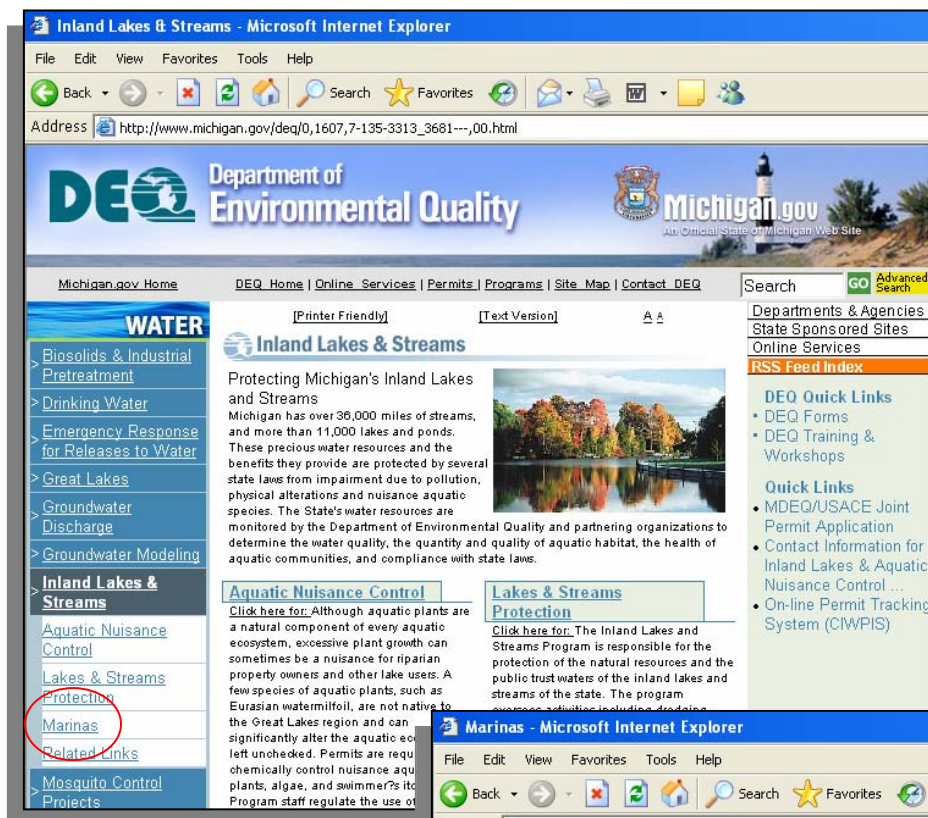
Michigan Department of Environmental Quality Land Home Page - Chapter 3

www.michigan.gov/jointpermit "Land"



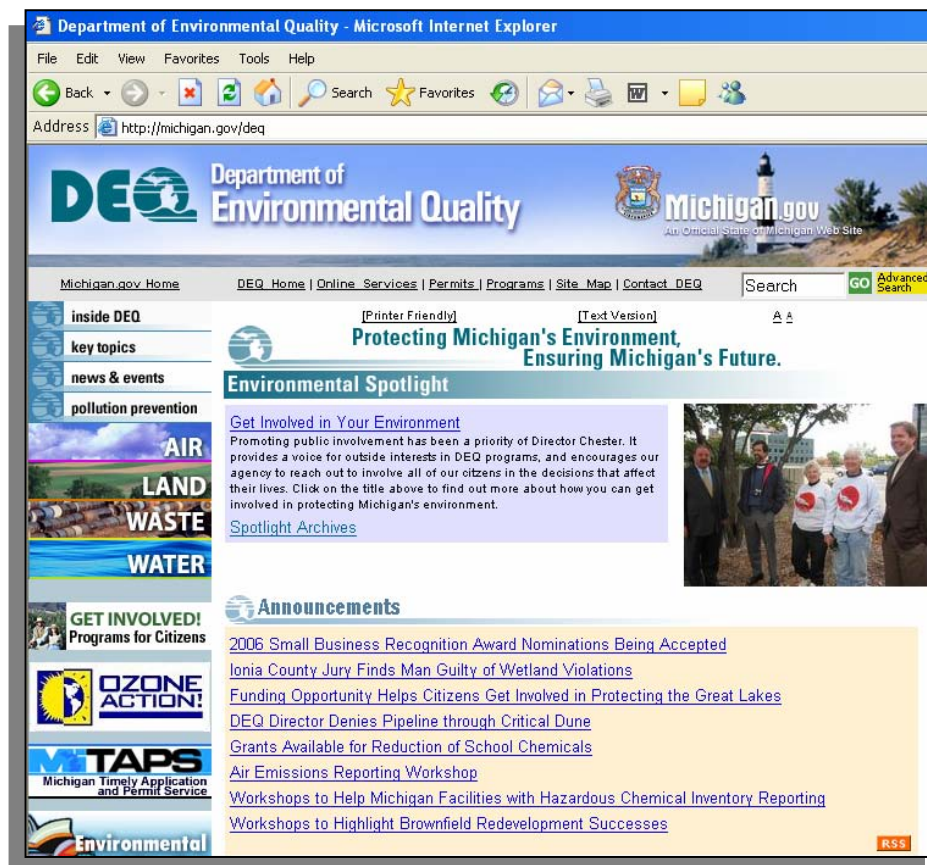
MDEQ Marinas - Chapter 3

www.michigan.gov/jointpermit "Inland Lakes & Streams," "Marinas" or www.michigan.gov/deqmarinas



Michigan Department of Environmental Quality Home Page

www.michigan.gov/deq



Michigan Department of Environmental Quality Water Home Page

www.michigan.gov/jointpermit "Water" or www.michigan.gov/deqwater

The screenshot shows the Michigan Department of Environmental Quality (DEQ) Water Home Page as viewed in Microsoft Internet Explorer. The browser's address bar displays the URL: <http://www.michigan.gov/deq/0,1607,7-135-3313---,00.html>.

The page header features the DEQ logo and the text "Department of Environmental Quality" and "Michigan.gov". Below the header is a navigation bar with links: Michigan.gov Home, DEQ Home, Online Services, Permits, Programs, Site Map, Contact DEQ, and a Search box.

The main content area is titled "MICHIGAN'S WATER" and includes the text: "Our water quality programs protect our most precious resource!". Below this, a paragraph describes the DEQ's role in establishing water quality standards, assessing water quality, and providing regulatory oversight.

The page is organized into several sections:

- Left Sidebar:** A vertical menu titled "WATER" with links to various programs: Biosolids & Industrial Pretreatment, Drinking Water, Emergency Response for Releases to Water, Great Lakes, Groundwater Discharge, Groundwater Modeling, Inland Lakes & Streams, Mosquito Control Projects, Surface Water, Water and Wastewater Security, Water Management, Water Quality Monitoring, Wetlands Protection, and Wetlands Protection.
- Announcements:** A section titled "Announcements" listing recent updates:
 - DEQ Releases Groundwater Inventory and Map
 - Source Water Assessment Program Final Report as submitted to USEPA
 - DEQ Announces a Section 401 Water Quality Certificate for the Upper Saginaw River Dredged Material Disposal Facility (DMDF)
 - MDEQ Water Division Announces Revised Mercury Permitting Strategy for National Pollutant Discharge Elimination System Permits for Fiscal Years 2005-2009
 - DEQ Announces Establishment of Groundwater Conservation Advisory Council (GWACAC)
- Spotlight:** A section titled "Spotlight" featuring:
 - Revised Draft Annex 2001 Implementing Agreements
- Featured Online Services:** A section titled "Featured Online Services" listing various online tools:
 - Aquatic Nuisance Control Permit Application Status
 - Beach Monitoring System
 - Biosolids Residual Management Program System
 - Coastal and Inland Waters Permit Information System (CIWPIS)
 - Combined Sewer Overflow and Sanitary Sewer Overflow System
 - Dam Safety Consultants Registry
 - E-DMR Reporting System
 - EPA Water Quality Standards
- Right Sidebar:** A section titled "Departments & Agencies" with links to State Sponsored Sites, Online Services, and RSS Feed Index. Below this is a "DEQ Quick Links" section with links to DEQ Forms, DEQ Training & Workshops, and a "Quick Links" section with links to Michigan's Nestles Amicus Brief, Groundwater Dispute Resolution Program, Total Maximum Daily Load (TMDL) Assessments, MDEQ/USACE Joint Permit Application, Annual Wastewater Reporting, Clean Water State Revolving Fund, Drinking Water Revolving Fund, Operator Training and Certification, and Groundwater Discharge.

USGS Water Levels - Chapter 2

<http://mi.waterdata.usgs.gov/nwis/sw>

The screenshot shows a Microsoft Internet Explorer browser window with the title "USGS Surface-Water Data for Michigan - Microsoft Internet Explorer". The address bar displays "http://mi.waterdata.usgs.gov/nwis/sw". The website features the USGS logo with the tagline "science for a changing world". Below the logo, there is a navigation bar with "Water Resources" and two dropdown menus: "Data Category:" set to "Surface Water" and "Geographic Area:" set to "Michigan", followed by a "go" button. The main heading is "Surface-Water Data for Michigan". A red note states: "NOTE: During winter months, stage and discharge may be affected by ice. [Click here for more information.](#)". On the left, there are several blue buttons: "Real-time", "Recent", "Streamflow", "Statistics", "Daily", "Monthly", "Annual", and "Peaks". Each button has a corresponding description: "Real-time" (Data for selected sites recorded at 5-60 min interval-- may include surface-water, ground-water, water-quality, and meteorological parameters.), "Recent" (Provisional daily data for the previous 18 months--includes published streamflow.), "Streamflow" (Daily streamflow data for the period of record at each site.), "Statistics" (Computed from published daily data.), "Peaks" (Annual maximum instantaneous peak streamflow and gage...), "Daily", "Monthly", and "Annual" (no descriptions provided). On the right, under the heading "Introduction", there is text explaining that USGS surface-water data includes more than 850,000 station years of time-series data that describe stream levels, streamflow (discharge), reservoir and lake levels, surface-water quality, and rainfall. The data are collected by automatic recorders and manual measurements at field installations across the Nation. It further explains that data are collected by field personnel or relayed through telephones or satellites to offices where it is stored and processed. The data relayed through the Geostationary Operational Environmental Satellite (GOES) system are processed automatically in near real time, and in many cases, real-time data are available online within minutes. Finally, it states that once a complete day of readings are received from a site, daily summary data are generated and stored in the data base. Recent provisional daily data are updated on the web once a day when the computation is completed. Annually, the USGS finalizes and publishes the daily data in a series of water-data reports. Daily streamflow data and peak data are updated annually following...

MDEQ Wetland Assessment Program - Chapter 3

www.michigan.gov/jointpermit "Wetlands Protection (in Related Links)," "Wetland Assessment Program" or www.michigan.gov/deqwetlands

Department of Environmental Quality
Michigan.gov
An Official State of Michigan Web Site

Michigan.gov Home | DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ | Search | GO | Advanced Search

WATER

- Biosolids & Industrial Pretreatment
- Drinking Water
- Emergency Response for Releases to Water
- Great Lakes
- Groundwater Discharge
- Groundwater Modeling
- Inland Lakes & Streams
- Mosquito Control Projects
- Surface Water
- Water and Wastewater Security
- Water Management
- Water Quality Monitoring

Wetlands Protection

What is a Wetland?

Michigan's wetland statute, Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, defines a wetland as "land characterized by the presence of water at a frequency and duration sufficient to support, and that under normal circumstances does support, wetland vegetation or aquatic life, and is commonly referred to as a bog, swamp, or marsh." The definition applies to public and private lands regardless of zoning or ownership.

Information

- Celebrating the 25th Anniversary of the Wetlands Protection Act
- What is a Wetland?
- Why are Wetlands Important?
- Are there Wetlands on My Property?
- Wetland Permits
- State, Federal and Local Wetland Regulations
- Wetland Assessment Program
- Wetland Links

DEQ Quick Links

- DEQ Forms
- DEQ Training & Workshops

Quick Links

- Contact Information for Wetlands Protection
- Conservation Easement Checklist PDF
- Contract Wetland Identification Specialist Job Openings PDF
- Financial Assurance Model Language
- Conservation Easement Model PDF
- Wetland Assessment Application PDF
- Finding a Wetland Consultant
- Wetland Information

Department of Environmental Quality
Michigan.gov
An Official State of Michigan Web Site

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- Water and Wastewater Security
- Water Management
- Water Quality Monitoring
- Wetlands Protection

Wetland Assessment Program

Contact: Wendy Veltman 517-241-8485
Agency: Environmental Quality

The Michigan Department of Environmental Quality's (DEQ's) Land and Water Management Division (LWMD) initiated the Wetland Assessment Program (WAP) in July 1998. The WAP and the ability to assess fees for the WAP are authorized by Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The WAP offers three levels of service to assist the public in identifying wetland and upland areas on their property.

Individuals interested in WAP services should submit an application indicating the level of service desired, supporting documentation as required by the application, a description of the area to be assessed, and the associated fee to the LWMD. The three levels of wetland assessment services and associated fees are as follows:

Level 1: The LWMD staff will conduct an in-office review of readily available information on an identified area of land of up to four sections, including maps and soil surveys indicating the approximate location of wetlands in the given area. The LWMD will provide applicants with a report indicating whether there is a high or low probability that the identified area contains wetland, including copies of available maps, a general interpretation of the maps, helpful information regarding the regulatory process and wetland protection, a permit application, and the

Related Content

- Celebrating the 25th Anniversary of the Wetlands Protection ...
- What is a Wetland?
- Why are Wetlands Important?
- Are there Wetlands on My Property?
- Wetland Permits
- State, Federal and Local Wetland Regulations
- Wetland Mitigation
- Great Lakes Beach Maintenance
- Education & Stewardship
- Wetland Mitigation Banking
- Wetland Restoration
- Wetland Links

MDEQ Wetland Protection Page - Chapter 3

www.michigan.gov/jointpermit "Wetlands Protection (in Related Links)" or
www.michigan.gov/deqwetlands

DEQ Department of Environmental Quality Michigan.gov
An Official State of Michigan Web Site

Michigan.gov Home | DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

Search **GO** Advanced Search

WATER

- > Biosolids & Industrial Pretreatment
- > Drinking Water
- > Emergency Response for Releases to Water
- > Great Lakes
- > Groundwater Discharge
- > Groundwater Modeling
- > Inland Lakes & Streams
- > Mosquito Control Projects
- > Surface Water
- > Water and Wastewater Security
- > Water Management
- > Water Quality Monitoring
- > **Wetlands Protection**

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Wetlands Protection

[Printer Friendly] [Text Version] A A

What is a Wetland?

Michigan's wetland statute, Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, defines a wetland as "land characterized by the presence of water at a frequency and duration sufficient to support, and that under normal circumstances does support, wetland vegetation or aquatic life, and is commonly referred to as a bog, swamp, or marsh." The definition applies to public and private lands regardless of zoning or ownership.



> [More](#)

Information

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- [What is a Wetland?](#)
- [Why are Wetlands Important?](#)
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- [Wetland Permits](#)
- [State, Federal and Local Wetland Regulations](#)
- [Wetland Mitigation](#)
- [Wetland Links](#)

Law & Rules

- [Part 303, Wetlands Protection, Rules](#)
- [Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended](#)

Identification

- [Wetland Identification: Hydrology, Vegetation, and Soils](#)
- [More on Wetland Hydrology](#)
- [More on Wetland Vegetation](#)
- [More on Hydric Soils](#)

Departments & Agencies

- State Sponsored Sites
- Online Services
- RSS Feed Index**

DEQ Quick Links

- [DEQ Forms](#)
- [DEQ Training & Workshops](#)

Quick Links

- [Contact Information for Wetlands Protection](#)
- [Conservation Easement Checklist](#) **PDF**
- [Contract Wetland Identification Specialist Job Openings](#) **PDF**
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- [Wetland Information Sources](#)